A SOUTHERN RIGHT WHALE, (EUBALAENA AUSTRALIS), IN HERVEY BAY, QLD AND BALLINA, N NSW. Memoirs of the Queensland Museum 51(2): 308. 2005:- In the first half of the 19th century, southern right whales (Eubalaena australis) were heavily exploited (Dawbin, 1986). Right whales were found throughout the Southern Hemisphere between 30-60° S (Bannister et al., 1997; Best et al., 2001), with its first reported Australian whaling in the Derwent Estuary, Tasmania in 1805 (Dakin, 1977). Like many baleen whales, southern right whales feed in high-latitude waters and migrate to warmer waters to breed (Best et al., 1993; Bannister et al. 1997). Southern right whales aggregate close inshore when on the breeding grounds (Burnell & Bryden, 1997; Patenaude, 2002), which made them easy targets for bay whaling. An estimated 26,000+ southern right whales were taken from SE Australia and New Zealand from 1822 (Dawbin, 1986). Peak catches occurred during 1830 – 1850, followed by a rapid decline in all regions. (Best et al., 2001).

Although right whales were protected internationally in 1935, Soviet whaling expeditions (1951-1972) illegally took at least 3,349 southern right whales (Tormosov et al., 1998; Best et al., 2001). Despite anecdotal evidence of an increase off SW Australia by the mid-1970s, it could only be quantified from 1983 (Bannister, 2001). Significant increases have been reported off South Africa and Patagonia from 1969 and 1971, respectively (Best et al., 2001). The most northerly Australian cast coast sighting of southern right whales was just south of Sydney (Bannister, 1986; Dawbin, 1986). Here, we report sightings of the same individual southern right

whale in Hervey Bay and off Ballina.

Methods

Our observations were made during field studies of humpback whales. The research in Hervey Bay has been conducted for 10 weeks each year since 1992, during which time southern right whales were seen and photographed on only one other occasion, a mother-ealf pair in 2000 (Brigden, 2001). Observations in 2003 were made from a 12-metre power catamaran and photographs were taken with a Canon EOS 10D with a 100-300 telephoto lens. At Ballina in 2003, field surveys were done for 4 days per week for 10 weeks from a 5.8-metre powerboat. Photographs were taken with a Nikon D100 with 70-200 telephoto lens and 1.4X converter.

The whale was photographed (TF) in Hervey Bay on August 25, 2003 at 16:50 at location 25° 05.083' S, 153° 08.252' E. A number of the Hervey Bay whale-watching vessels reported sighting a southern right whale on 23 August and the fleet reported continued sightings during the following 15 days. On 7 September at 16:20 the right whale was resighted and photographed at 25° 00.800' S, 153° 11.332' E with 2 humpback whales. On 15 September, 2003, a southern right whale was photographed (DB) off Ballina at

28° 49.565' S, 153° 36.473' E.

Results and discussion

The right whale was individually identified from natural markings, including eallosity patterns, as described by Payne et al. (1983). Comparison of photographs from Hervey Bay and Ballina confirmed that they were of the same individual. In both localities, the whale was within 400m of the coast. The distance between the Hervey Bay and Ballina sightings is approximately 550km.

The northernmost sighting of a southern right whale in east Australia included a mother and calf in Hervey Bay in 2000 (Brigden, 2001). Taken with other recent sightings, these observations suggest that the population may be increasing (Allen & Bejder, 2003). The sightings may also indicate an expansion of the range of E. australis off eastern Australia,

which may represent recolonization of breeding grounds used prior to the whaling era. Similar expansions have been documented elsewhere in the Southern Hemisphere (Best et

al., 1993; Patenaude et al., 1998).

Allen & Bejder (2003) noted that northerly movement of southern right whales into sub-tropical Australian waters raises issues of risk management similar to those for humpback whales. With their typical coastal behaviour in winter, southern right whales along the NE coast of Australia are at risk of entanglement in shark mesh nets and vessel strike from high vessel traffic.

Acknowledgements

We thank Nathalie Patenaude for confirming the photographic matches, Wally Franklin for assistance in preparation of the manuscript, and Phil Clapham, Peter Harrison, Peter Bayerstock and John Bannister for comments on earlier drafts.

Literature cited

Allen, S. & Bejder, L. 2003. Southern Right Whale Eubalaena australis sightings on the Australian coast and the increasing potential for entanglement. Pacific Conservation Biology 9: 228-233.

Bannister, J.L. 1986. Southern right whales: Status off Australia from Twentieth-Century 'Ineidental' sightings and acrial survey Report of the International Whaling Commission, Special Issue 10: 153-160.

2001. Status of southern right whales (Eubaluena australis) off Australia. Journal of Cetacean Research and Management,

Special Issue 2: 103-110, Bannister, J., Burnell, S., Burton, C. & Kato, H. 1997. Right whales off southern Australia: direct evidence for a link between onshore breeding grounds and offshore probable feeding grounds. Report of the International Whaling Commission 47: 441-444.

Best, P. B., Payne, R., Rowntree, V., Palazzo, J.T. & Both, M.D.C. 1993. Long-range movements of South Atlantic right whales Eubalaena australis, Marine Mammal Science 9: 227-234. Best, P.B., Bannister, J.L., Brownell, R.L. & Donovan, G.P. (eds)

2001. Right whales; Worldwide status, Journal of Cetacean Research and Management (Special Issue 2).

Brigden, J. 2001. Southern right whales Eubalaena australis (Desmoulins 1822), in Hervey Bay, Queensland. Memoirs of the Queensland Museum 47: 430.

Burnell, S.R. & Bryden, M.M. 1997. Coastal residence periods and reproductive timing in southern right whales, Eubalaena australis. Journal of Zoology, London 241: 613-621.

Dakin, W. J. 1977. Whalemen adventurers in southern waters. Revised edition. (Angus & Rohertson: Sydney)

Dawbin, W.H. 1986. Right whales caught in waters around south castern Australia and New Zealand during the nineteenth and early twentieth centuries. Report of the International Whaling Commission, Special Issue 10: 261-267.

Patenaude, N., Baker, C.S. & Gales, N.J. 1998. Observations of southern right whales on New Zealand's sub-Antarctic

wintering grounds. Marine Mammal Science 14: 350-355. Patenaude, N.J. 2002. Demographic and genetic status of southern right whales at the Auckland Islands, New Zealand, School of Biological Sciences. (University of Auckland: Auckland).

Payne, R., Brazier, O., Dorsey, E., Perkins, J., Rowntree, V & Titus, A 1983. External features in southern right whales (Eubalaena australis) and their use in identifying individuals. Pp. 371-445. In Payne, R. (ed.) Communication and behaviour of whales.

(Westview Press:Boulder, Colorado, Tormosov, D. D., Mikhaliev, Y.A., Best, P.B., Zemsky, V.A., Sekiguchi, M. & Brownell R.L.Jr. 1998. Soviet eatches of southern right whales Eubalaena australis, 1951-1971. Biological data and conservation implications. Biological Conservation 86: 185-197.

Trish Franklin & Daniel Burns, Southern Cross University Whale Research Centre, PO Box 157, Lismore, NSW 2480. [e-mail: trish@oceania.org.au]